

ABSTRACT

A METHOD OF DESPREADING GPS SIGNALS

5 A method of despreding GPS spread spectrum signals containing
pseudorandom noise (PRN) code sequences and received by a GPS receiver
(24) is disclosed together with a GPS receiver (24) and a mobile
communications device (MS1) (especially a mobile cellular telephone) for the
same. The method comprises the steps of providing Doppler information
10 relating to an estimate of the variation in Doppler shift as observed on the
target signal by the GPS receiver and which is attributable to the motion of the
GPS satellite; and correlating the target signal with a reference signal
containing corresponding PRN code sequences, wherein, in the course of a
single dwell, the correlation is modified as a function of the Doppler
15 information.

[Figure 2]

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